

TECHNICAL REVIEW: E-PERMITS REGISTRATION OIL AND GAS PBR OR STANDARD PERMIT

Permit No.:	105313	Company Name:	Burlington Resources Oil & Gas Company LP	APD Reviewer:	Ms. Sally Bittick
Project No.:	183686	Unit Name:	Yanta South A-288 No. 1	PBR No(s):	106.352 2011-FEB-27 LEVEL 2

GENERAL INFORMATION					
Regulated Entity No.:	RN106025109	Project Type:	Permit by Rule Application		
Customer Reference No.:	CN602989436	Date Received by TCEQ:	October 8, 2012		
Account No.:	None	Date Received by Reviewer:	December 6, 2012		
City/County:	Runge, Karnes County	Physical Location:	NW out of Runge ~2.75 mi on FM 81 take R on FM 627 go ~0.6 mi to CR 318 take R on CR 318 go ~0.1 mi to facility on R		

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Mr. Randy Black Manager of Production Operations - GCBU	Phone No.:	(832) 486-6508	Email :	RANDY.C.BLACK@CONOCOPHILLIPS.COM
		Fax No.:	(832) 486-6431		
Technical Contact/ Consultant Name and Title:	Mr. James Woodall Sr. Environmental Specialist	Phone No.:	(832) 486-6508	Email :	JAMES.WOODALL@CONOCOPHILLIPS.COM
		Fax No.:	(832) 486-6431		

SCREENING CRITERIA	YES	NO	DETAILS	SCREENING CRITERIA	YES	NO	DETAILS
Certified?	X			Notify Rec'd?	X		Date: 10/08/2012
Operational limits?		X		Within 90-180 days?		X	Project #: 183686
Controls?	X			Is the site in Barnett-Shale?		X	
Compliance issues?		X		Site in nonattainment area?		X	
Fed. or State Reg.?		X		Other affected air permit/registration?		X	#
Major /Modif. /Netting?		X		New or Existing site?	X		New
Planned MSS included?	X			Have all existing affected sources been considered in the scope?	X		
Confirm Level claimed?	X						
List attachment Doc # profiled in Doc Mgmt System				List attachment Doc # profiled in Doc Mgmt System			
				Indicate all documents provided with submittal. Profile preference all combined documents. If not combined, list individually.			
Notification Copy of Record	X		NCOR	All other Docs combined (pdf)			
Registration Copy of Record	X		RCOR	State/Fed. Regs.?	X		SUPINFO
Emissions calculations?	X		CALCS	Netting info?		X	
TCEQ Spreadsheet? (pdf)		X	Doc #: Version #:	Equip. tables, manuf. info, specs. controls?		X	
Other calcs.? (pdf)	X		CALCS	Site map?	X		SUPINFO
Actual gas analysis?	X		Yanta South 288-1 LP Upstream of Compressor, Laird B1 High Pressure Separator	Process flow/descrip.?	X		SUPINFO
Extended (incl. benzene)?	X			Calc. support programs?	X		CALCS
Actual liquid analysis?	X		Yanta South 288-1	ProMax, HYSIS, etc.?	X		CALCS
Extended (incl. benzene)?	X			Liquid analysis?	X		SUPINFO
Actual flash analysis?		X	If No, complete below	Gas analysis?	X		SUPINFO
Extended (incl. benzene)?		X		Flash analysis?		X	
H ₂ S included in all analysis?		X		Impact tables, screen, etc.?	X		SUPINFO
Impacts review required?	X		Method(s): Screen3	Other:			
Modeling? (zip)	X						

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Representative Analysis Protocol Summary Review (indicate Yes/No or list Details)				Emission Calculations Guidance Summary Review			
Description	Gas	Liquid	Flash	Description	Yes	No	Description
Same producing field & reservoir/formation?	Yes	Yes	N/A	All project sources in emission spreadsheet?	X		
Same number and stages of separation, sweetening, and dehydration?	Information not provided.			Liquid and gas analysis match the emissions spreadsheet?	X		
API gravity within +/- 3 degrees?				Project Description throughputs match inputs for calculations?	X		
Similar separator operating pressures, ±25 psi and temperatures ±50°C?				Engines/turbines controls used and relied upon? Manuf./vendor info match inputs for calculations?		X	
Natural gas site with associated liquid hydrocarbons (API >40)?				Are VOC or H ₂ S controls exceeding baseline? (Flare 98%, VRU 95%, Vapor Comb 90%, Reboiler 50%)		X	
Oil site (API gravity ≤40) with assoc. gases?				Emissions less than:			
Dry natural gas (less than 2 bbl of liquid per MMscf of natural gas)?				10 tpy VOC		X	
If sour site, tested for H ₂ S at actual site?				40 tpy NO _x	X		
				50 tpy CO	X		
				10 tpy SO ₂	X		
				0.025 lb/hr or 0.11 tpy H ₂ S	X		
				0.039 lb/hr or 0.17 tpy benzene	X		

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ESTIMATED EMISSIONS														
EPN / Emission Source	VOC		NO_x		CO		PM₁₀ PM_{2.5}		SO₂		Benzene		H₂S	
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
Normal Operations														
COMP-01 / Compressor Engine 1	0.61	2.67	1.22	5.34	2.43	10.64	0.04	0.18	<0.01	0.01	0.03	0.13		
FUG / Fugitives	0.61	2.66									<0.01	0.01	<0.01	<0.01
TK-01, TK-02, TK-03 / Controlled Condensate Tank emissions	2.07	3.32									0.01	0.01	<0.01	<0.01
TK-04 / Slop Storage Tank	1.36	0.05									0.01	<0.01		
TK-05 / Controlled PW Tank emissions	0.04	0.12									<0.01	<0.01	<0.01	<0.01
TRUCK1 / Controlled Condensate Truck Loading	1.24	0.24									0.01	<0.01		
TRUCK2 / Controlled PW Truck Loading	0.01	<0.01									<0.01	<0.01		
FL-1 / Flare combustion (Normal operations waste gas, assist and pilot)	0.01	0.04	1.22	1.83	2.44	3.68	<0.01	<0.01	0.04	0.16	<0.01	<0.01	<0.01	<0.01
TK-AF / Antifreeze Liquid Storage	0.50	0.01												
TK-LO / Lube Oil Liquid Storage	<0.01	<0.01												
TK-SCAV / H2S Scavenger Liquid Storage	<0.01	<0.01												
Scheduled Maintenance, Startup and Shutdown														
COMP-01-SV Compressor Engine 1 Starter Vent	16.15	0.42									0.06	<0.01	0.01	<0.01
COMP-01-BD Compressor Engine 1 Blowdown	0.10	<0.01									<0.01	<0.01	<0.01	<0.01
SEP-GAS / Low Pressure Separator Gas to Flare	22.34	5.87									0.08	0.02	0.01	<0.01
FL-1 - SMSS / Flare Combustion (LP Separator waste gas)			11.35	2.98	22.66	5.96	<0.01	<0.01	0.90	0.36			0.01	<0.01
FL-1 - SMSS / Flare Combustion (engine blowdown waste gas)			0.05	<0.01	0.10	<0.01	<0.01	<0.01	0.02	<0.01			<0.01	<0.01
TK-01, TK-02, TK-03 / Uncontrolled Condensate Tank Standing loss emissions (during Flare downtime)	1.02	0.09									<0.01	<0.01		
TK-04 / Uncontrolled Slop Tank Standing loss emissions (during Flare downtime)	0.34	0.03									<0.01	<0.01		
TK-05 / Uncontrolled PW Tank standing loss emissions (during Flare downtime)	<0.01	<0.01									<0.01	<0.01		
TOTAL EMISSIONS (TPY):		15.52		10.15		20.28		0.18		0.53		0.17		0.01
MAXIMUM OPERATING SCHEDULE:	Hours/Day		Days/Week		Weeks/Year		Hours/Year		8760					


Note: Emissions from storage tanks are routed to the flare.

COMP-01 formaldehyde = 0.04 lb/hr and 0.18 tpy

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SUMMARY		YES	NO	COMMENTS	
Reviewer recommends detailed evaluation?			X	Why or Why Not? All required information has been submitted.	
Technical Summary Doc	456912	Letter Doc #		456911	Other:
<div>Manager Action: Confirm Registration Now? <input type="checkbox"/> Yes Assign for Detailed Evaluation? <input type="checkbox"/> Yes</div>					

PROJECT SIGN-OFF	TECHNICAL REVIEWER		PEER REVIEWER	FINAL REVIEWER	
SIGNATURE:				See hard copy.	
PRINTED NAME	Ms. Sally Bittick			Ms. Anne Inman, P.E., Manager	
DATE:	January 15, 2013			January 16, 2013	
	Points	2.0		Points:	

POST REVIEW PROCESSING				
EMAIL SENT DATE			ASSIGNED TO	
EMAIL SENT BY			TRANSFERRED BY/DATE	